



DEPARTMENT OF THE NAVY

ENGINEERING FIELD ACTIVITY, NORTHEAST

NAVAL FACILITIES ENGINEERING COMMAND

10 INDUSTRIAL HIGHWAY

MAIL STOP, #82

LESTER, PA 19113-2090

395703

ORIGINAL
(Reg)

IN REPLY REFER TO

1822

July 16, 2001

Mr. John Rajkowski
U.S. Environmental Protection Agency
1650 Arch Street
Philadelphia, PA 19103-2029

Dear Mr. Rajkowski:

SUBJECT: LOWER DARBY CREEK AREA SITE

Enclosure (1) is provided in response to the questions in the EPA letter dated June 12, 2001.

If you should need additional information or have any questions please contact David Grasso at 610-595-0567 ext. 152.

Sincerely,

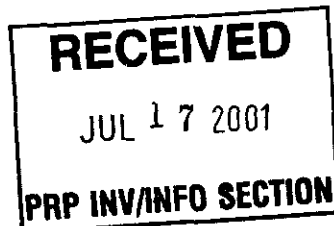
DEBRA L. FELTON

Head, Restoration Technical Branch

By direction of the

Commanding Officer

Enclosure: Responses to EPA Questions



Responses to EPA Questions
Lower Darby Creek Area Site

July 2001

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- 1.) Naval Facilities Engineering Command
Engineering Field Activity Northeast
Environmental Department
10 Industrial Highway, Mail Stop #82
Lester, PA 19113-2090
610-595-0567
- 2.) The current status of the Philadelphia Naval Base is an inactive (transferred)
Naval facility. Mission operations ceased in 1995. During the period in question
(1958 through 1976) the base was on active status.
- 3.) The following persons who may have had potential information were contacted to
prepare this response:

Ms. Marge Johnston
Public works Center
Philadelphia Naval Shipyard
Philadelphia, PA 19112
215-897-2579

Mr. Joe Flaherty
Ships Maintenance Facility
Philadelphia Naval Shipyard
Philadelphia, PA 19112
215-897-8767

Mr. Richard Cordy
Philadelphia Naval Business Center
NSWCCD-SSES
027-5001 South Broad Street
Philadelphia, PA 19112
215-897-7058

Mr. Robert McGowan
Naval Foundry and Propeller Center
Norfolk Naval Shipyard Detachment
Philadelphia Navy Yard
Philadelphia, PA 19112
215-897-1811

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4.) No documents exist for the period in question. Excerpts from BRAC Cleanup Plan dated April 1999 are enclosed as Appendix A which includes some information on the question topic.

B.) None available for the period

C.) None available for the period

5.) Some additional excerpts from the BRAC Cleanup Plan of April 1999 are enclosed as well as excerpts from the Environmental Baseline Survey, January 1998. This information is included in Appendix B

A.) See Appendix B

B.) See Appendix B

C.) See Appendix B

D.) See Appendix B

E.) See Appendix B

F.) See Appendix B

6.) A.) See Appendix B

B.) See Appendix B

C.) See Appendix B

D.) See Appendix B

E.) See Appendix B

F.) See Appendix B

7.) There are no records that exist for the period of 1958 through 1976 that the Navy made arrangements with the Clearview, Folcroft, Folcroft Annex, Eastern Industrial, Tri-County Hauling, S. Buckley Trash Hauling, Barratt Rupert, or McCloskey Engineering to transport or dispose of wastes.

A.) Not applicable

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B.) Not applicable

C.) Not applicable

D.) Not applicable

E.) Not applicable

F.) Not applicable

G.) Not applicable

H.) Not applicable

I.) Not applicable

8.) A.) No information available

B.) Not applicable

C.) Not applicable

9.) A.) Not applicable

B.) Not applicable

C.) Not applicable

D.) Not applicable

E.) Not applicable

10.) The Navy is not aware of any spills or releases of substances at the Clearview, Folcroft, or Folcroft Annex site that involve Naval activities.

A.) Not applicable

B.) Not applicable

C.) Not applicable

D.) Not applicable

11.) This information is not available, since no records prior to 1977 exist.

12.) The Navy is not aware of any assessments or investigations relating to contamination at Clearview, Folcroft, and Folcroft Annex or any other areas of the site.

13.) *We have no information*

14.) A.) Mr. Ralph Lombardo
Naval Field Activity Northeast
10 Industrial Highway
Lester, PA 19113-2090
610-595-0606 ext.152
Attorney

B.) Same

15.) A.) The Navy and Marine Corps Records Disposition Manual, SECNAV Instr. 5212.5C w/ changes 1,2,3,4,5 governs the disposition of records at Naval facilities.

B.) No information available

C.) No information available

D.) No information available

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Appendix A

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3.2.6

Hazardous Materials/Waste Management

Hazardous waste compliance programs at Philadelphia Naval Complex are conducted according to EPA Hazardous Waste Regulations (40 CFR 260-270) and Pennsylvania Hazardous Waste Regulations (25 PA Code chapters 260-270). In addition, NSWCCD-SSES has implemented the Navy's Consolidated Hazardous Materials Reutilization and Inventory Management Program (CHRIMP) and a Pollution Prevention (P2) program (dated December 1995).

NSWCCD-SSES holds a RCRA Part "B" permit from PADEP for hazardous waste storage that will expire in 2003. As of 1 September 1998, Northern Division's Caretaker Site Office generates waste under its own EPA ID number, separate from Navy retained property. Hazardous waste accumulation areas are located in various buildings throughout the retained area of the Philadelphia Naval Complex. A new less-than-90-day hazardous waste storage facility for Navy retained tenants was considered usable complete in October 1998. Construction punchlist items were completed December 1998. NSWC plans to vacate and turnover the facility for closeout by June 1999. Closure procedures for the existing Part "B" permitted facility (Buildings 1054 and 896) have been initiated. Closure requirements for the Part "B" facilities are addressed in accordance with the approved closure plan. Closure Report approval is anticipated August 2001.

A storage building for hazardous/flammable material (Building 1081) was constructed within the Navy retained area of the Philadelphia Naval Complex. Closure requirements for hazardous materials storage areas at Philadelphia Naval Complex are addressed on a building by building basis. The building occupants are responsible for the removal of hazardous materials prior to building closure. In general, the hazardous materials are consolidated and screened for reuse or disposal. The majority of hazardous material removal is complete.

3.2.7

Solid Waste Management

Municipal and residual solid waste generated by Philadelphia Naval Complex is transported off-site for appropriate disposal via contract.

3.2.8

Polychlorinated Biphenyls

At Philadelphia Naval Complex, in-service transformers with PCB concentrations greater than 500 mg/L ("PCB transformers") were removed and replaced. In-service transformers with PCB concentrations between 50 and 499 mg/L ("PCB-contaminated transformers") are located throughout the Philadelphia Naval Complex. Removal and/or replacement of these transformers is not required unless leaks are detected. Navy policy requires regular inspection of PCB-containing transformers.

Twenty sites at the Philadelphia Naval Complex were identified for remediation, due to detected PCB concentrations greater than 10 μg per 100 cm^2 of surface area (Figure 3-11). These sites were designated as PCB Work Areas, and remediation was completed at these sites.

In addition, remedial action was completed near Building 772, an electrical distribution building. An open top steel tank containing PCB-contaminated sludge was removed from the area in November 1996. Remediation of this site included the removal of PCB-contaminated soil beneath the tank.

3.2.9

Asbestos

Asbestos-containing material is regulated by EPA, Occupational Safety and Health Administration (OSHA), PADEP, and the City of Philadelphia Air Management Service (AMS). Activities related to asbestos-containing material at Philadelphia Naval Complex are conducted according to Navy policy and regulations issued by the above agencies. Abatement projects are performed in accordance with AMS-established regulations. Air monitoring is performed continuously during asbestos abatement projects by independent asbestos project inspectors, as required by local regulations.

Asbestos surveys, abatement designs, and Operation and Maintenance (O&M) plans were completed for each command that owned buildings (i.e., Naval Station, PNSY, and NSWCCD-SSES) in the early 1990s. A particular geographic area of the base (e.g., a reuse zone) may contain buildings owned by several different commands; therefore, several asbestos

surveys may pertain to a particular zone. In addition, base-wide asbestos surveys were completed in 1995 for utilities, including steam lines, tunnels, and trenches.

Asbestos surveys were completed for former Naval Station buildings in 1990, 1995, and 1997. Abatement of friable, accessible, and damaged asbestos-containing material (FAD ACM) was completed in 1995 and is ongoing for the recently identified FAD ACM. Also, an asbestos O&M plan was developed to address the remaining asbestos-containing material. An Asbestos Project Manager was assigned to fulfill the requirements of the O&M plan until the property is disposed.

Asbestos and lead-based paint surveys (see Section 3.3.14) were completed at on-base and Capehart housing areas as part of a Navy-wide program. Asbestos abatement for housing was accomplished, but does not include housing units scheduled for demolition. A separate O&M plan is being developed for housing.

An asbestos survey was completed for former PNSY buildings in 1995 and 1997. Designs for abatement of asbestos-containing material have been completed, and the abatement is underway. An asbestos O&M plan was developed concurrently with the survey. An Asbestos Project Manager was assigned to execute the O&M plan until the property is disposed.

NSWCCD-SSES has oversight for the asbestos programs related to the retained property. Each tenant within the retained area is responsible for maintaining their own asbestos programs. NSWCCD-SSES has completed an asbestos survey and O&M plan for buildings owned by NSWCCD-SSES, except for Building 633 (which has a completed asbestos survey for the building services but only a partial survey for the test sites). The design for abatement was initiated, with abatement to follow. Norfolk Naval Shipyard Detachment is responsible for the inventory and O&M plan for the buildings occupied by NNSY-Phila.

Air monitoring and visual inspection for asbestos were conducted during field work at IR Program Site No. 4 at the Girard Point Management Area. Follow-up air monitoring at the Girard Point Management Area was completed in 1997.

3.2.10

Radon

According to Navy policy, radon was tested using a one-year alpha-track test per EPA and PADEP guidance. Radon assessments were conducted in 110 family housing units at on-base and Capehart housing areas in January 1991. None of the radon levels were higher than 4 picoCuries per liter (pCi/L), EPA's recommended maximum level. Additional screening was completed at the Capehart housing area in October 1995. Four units had levels above the EPA action level of 4 pCi/L, ranging from 4.6 to 6.9 pCi/L. In accordance with DOD guidance, no additional testing or mitigation will take place at the site.

3.2.11

NPDES Permits

Philadelphia Naval Complex has two NPDES permits under Navy ownership. One is held by NSWCCD-SSES for retained property and will expire on 6 July 2000. The other, the former PNSY permit, has been transferred to Northern Division and is being managed by the CSO. This permit, expiring on 8 April 2002, is for excessed property and consists of six outfalls. The outfalls for the dry docks were transferred with the former PNSY permit, and two permits are held with PADEP by commercial tenants.

3.2.12

Oil/Water Separators

There are 12 permanent and 3 portable oil/water separators at Philadelphia Naval Complex. The three portable oil/water separators were used to separate waste oil that was removed from ships. The 12 permanent oil/water separators are located as follows: three at the fuel farm, one at DRMO, one at the firefighting school, one at Building 601 Testing Area, and six that are maintained by NSWCCD-SSES within the retained area. With the exception of the three at the fuel farm (which discharge to the storm sewer), the oil/water separators are connected to the sanitary sewer system and are monitored per agreement with the City of Philadelphia.

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3.2.13

Waste-Water Discharge to City Sewer

The sewage collection system receives sanitary sewage from gravity sewers, force mains, and pumping stations at the Philadelphia Naval Complex. Pre-treatment of some hazardous waste water is conducted at Building 1053 by PWC. Sewage is then pumped to the Southeast Sewage Treatment Plant, owned by the City of Philadelphia. NSWCCD-SSES and PWC are responsible for operating and maintaining the sewage collection system, as well as ensuring compliance with City of Philadelphia waste-water control regulations (issued in June 1990 and amended in June 1993). A dissolved air flotation unit is located in Building 1053 and can be used by PWC-DET to pre-treat some waste water. The unit is not presently being used.

3.2.14

Air

Existing PNSY air permits were transferred to PWC and NNSY-Phila. Title V operating permit applications for the three remaining major sources at the Complex were submitted to Philadelphia AMS. Sources included: NSWCCD-SSES test facilities, PWC boiler plant, and NNSY-Phila. foundry stacks. Emission Reduction Credits (ERC) were obtained for the PNSY operations that are no longer conducted. These ERC are in the custody of NSWCCD-SSES. An updated emission inventory is submitted annually, as required by the Philadelphia Air Management Regulations.

3.2.15

Lead

Lead-based paint surveys were completed in family housing units per Navy policy. The lead-based paint survey for on-base and Capehart housing areas was completed in August 1995. A lead cleanup initiative is completed in the housing units, with the exception of housing units planned for demolition. In addition, lead paint associated with asbestos abatement projects was addressed during asbestos abatement in the housing units.

Peeling lead-based paint from building exteriors has resulted in lead in the soil surrounding these buildings. The EPA considers this a release under CERCLA, while the Navy does not agree that CERCLA applies. The Navy and the EPA are working to resolve this issue.

3.2.16

Radioactive Materials

Radiological assessments of the Philadelphia Naval Complex were performed by the Navy's contractors and the Navy Radiological Affairs Support Office (RASO). It was concluded that the exposure rates were typical of naturally occurring background radiation, and no anomalous radiation sources were detected. The following investigations were part of the assessment:

- The former PNSY Navy Radioactive Materials Permit (NRMP) No. 37-00151-AINP was terminated in May 1995. Radioactive materials and sources registered to the former PNSY were physically removed and returned to the manufacturer.
- An aerial radiological survey of the Complex was conducted in September 1995, and an exposure rate contour map and report were generated.
- The PNSY Radiation Safety Officer (RSO), RASO, and a Navy contractor conducted a preliminary assessment of radiological issues at the Complex by researching historical radiological records and surveying 15 areas of concern. No evidence of residual radioactive materials was found. These findings are part of the Historical Radiological Assessment (HRA) completed in February 1996.
- A Radiological Building Survey Report was completed in July 1996 for Buildings 57, 59, 94, and 633.
- Low Level Radioactive Waste (LLRW) for the Philadelphia Naval Complex was inventoried in August 1996 and is awaiting RASO removal instructions.

Final documents and reports received approval from RASO, and no further investigation is required.

3.2.17

Potable Water

The City of Philadelphia supplies drinking water to the Philadelphia Naval Complex. The water must comply with Safe Drinking Water Act (SDWA) and Pennsylvania State regulations.

The Navy maintains the distribution of potable water to Philadelphia Naval Complex tenants and independently monitors the water, testing for chlorine and coliform bacteria. The Complex abides by the Navy's Bureau of Medicine (BUMED) regulations, which require two random bacteriological samples per month at a facility having 1,000-2,499 occupants. This testing is accomplished by the Naval Medical Clinic. Testing for lead was accomplished in the past, and sources of lead with levels above the allowable limit were remediated or taken out of service.

3.2.18

Pesticides

A comprehensive pest management program has been in place at the Philadelphia Naval Complex for many years. Pest management operations are currently being conducted by PWC Detachment, out of Building 585. The Pest Control Containment Unit at Building 585 has been designated a satellite accumulation area for pesticides only. Supplemental pest control contracts for grounds maintenance are occasionally let. Contract personnel are prohibited from storing, mixing, or disposing pesticides on the property. There is a maintenance agreement currently in place between the CSO and PWC to handle PNSY buildings.

3.3

Status of NEPA and Natural and Cultural Resources Programs

To analyze the environmental impact of property disposal and the City of Philadelphia's reuse plans, the Navy filed a Notice of Intent on 28 December 1994 for scoping of an Environmental Impact Statement (EIS) for the former NAVBASE property to be excessed. The draft EIS was issued in January 1996. The final EIS for the former NAVBASE and PNSY property was filed in June 1996, and the ROD was signed 26 June 1997.

3.3.1

Wetlands

Wetland and floodplain mapping was completed in 1994. The presence of wetlands is discussed in Section 1.4.1. The extent and quality of these areas are addressed in the EIS for the Philadelphia Naval Complex.

3.3.2

Sensitive Habitats

The EIS addresses potentially sensitive habitats at Philadelphia Naval Complex and their relationship to endangered species.

3.3.3

Endangered Species

Philadelphia Naval Complex maintains a monitoring program of wildlife at the facility. A report by the Nature Conservancy, *An Inventory of Species of Concern and Significant Natural Communities of the U.S. Naval Base*, was issued in May 1992. Two endangered species were identified in the area. Peregrine falcons were observed roosting under the overpass of I-95, where it crosses the Schuylkill River, and on the lift bridge over the entrance to the Reserve Basin. They were also found roosting at nearby off-base locations. In addition, short-nosed sturgeon have been seen in the water surrounding the facility. The EIS addresses the potential impact of intended reuse on the endangered species at Philadelphia Naval Complex. In 1992, five identified state-listed plant species of concern were reported in the wetlands at the east end of the Naval Base: the tufted foxtail grass, the short-pointed flatsedge, the rusty flatsedge, the velvety panic grass, and the fall witch grass.

3.3.4

Archeological Sites

The cultural resources survey, finalized in 1994, identified three archeological sites at the Philadelphia Naval Complex that may potentially be eligible for listing on the National Register of Historic Places: a World War I Barracks site, a structure of unknown origin/use at the south end of the Marine Corps Parade Grounds, and an area surrounding Quarters A. The survey also found areas with potential for deeply buried historic and pre-historic resources. The report was reviewed by the Pennsylvania State Historic Preservation Officer, who concurred with the findings.

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Appendix B

6.3 NOTICE OF CERCLA HAZARDOUS SUBSTANCES

In accordance with CERCLA 120 (h)(1), 40 CFR 373, and DOD policy of 14 June 1994, notice is required when a hazardous substance has been stored for one year or more and applies only when the substances are or have been stored in quantities greater than or equal to 1,000 kilograms or the substance's reportable quantity, whichever is greater; or when hazardous substances that are also listed under 40 CFR 261.30 as acutely hazardous wastes, and that are stored for one year or more, have been stored in quantities greater than or equal to one kilogram. Notice is also required when hazardous substances are or have been released or disposed in quantities greater than or equal to the substance's CERCLA reportable quantity. Hazardous substances and petroleum products formerly used, released, or disposed at the East End Naval Base are listed in Table 6-1. Limited information was available on historical quantities of substances and length of storage. Notice of hazardous substances under CERCLA 120 (h)(1) is provided in Table 6-2 based on available information.

**TABLE 6-1 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS STORED, RELEASED, OR DISPOSED
AT THE EAST END NAVAL BASE**

Building Number	Building/Area Description	Substance (Stored/Released)	Quantity	Date(s) Stored/Released	CERCLA 120 (h)(1) Reportable?
974	Enlisted Men's Barracks	Potentially stored household cleaners	small containers	1971-1995	assumed no
981	Navy Exchange Retail Store	Stored heating oil in AST (3)	2,000-gal UST	1979-1995	no
997	Bowling Alley	Stored household cleaners, heating oil tank (4)	small containers 4,000-gal UST	1971-1995 1985-1995	assumed no
998	Dining Hall	Stored paint in flammable locker and household cleaners	small containers	1973-1995	assumed yes
1011	Community Center	Stored heating oil in AST (5)	1,500-gal UST	1988-1995	no
1013	Trailer Park	Stored household cleaners	small containers	1970s-1995	assumed no
1031	Enlisted Housing	Potentially stored household cleaners, Stored diesel fuel in UST (2)	small containers 285-gal UST	1980-1995 1978-1995	assumed no
1068	McDonald's	Stored household cleaners	small containers	1987-1995	assumed no
2201-2206/ 2301-2385	Family Housing	Potentially stored household cleaners	small containers	1970s-1995	assumed no
Sites 1 and 2	Open Areas	Blasting grit released to soil; removal conducted in 1997; additional removal planned	unknown quantities	unknown	assumed yes
Former pistol range	North corner of East End Naval Base	Lead ammunition released to soil – removed in 1996	unknown quantities	unknown	assumed yes
Former catapults	South of the east-west runway	PNB-16 and PNB-27: release of petroleum products	unknown quantities	unknown	no
EPIC fill area	Grassed open area south of Building 905 and housing unit 2339	PNB-20: unknown fill material, possibly construction debris	unknown quantities	unknown	no
Waste manage. area	Southwest of baseball field 1012	PNB-22: potential release of petroleum products	unknown quantities	unknown	no

Building Number	Building/Area Description	Substance (Stored/Released)	Quantity	Date(s) Stored/Released	CERCLA 120 (h)(1) Reportable?
Drum Storage Area	Former building/area south of Patrol Road and west of parking lot entrance for baseball field 1012	PNB-23: potential release from drum storage area	unknown quantities	unknown	assume yes
Two gasoline ASTs	Southeast corner of intersection of Patrol Road and SW/NE runway of Mustin Field	PNB-25: potential petroleum releases	unknown quantities	unknown	no

1. Note: The hazardous substances, quantities, and dates listed in this notice are based on the available information and documentation (end-of-year hazardous material inventory from 1994 and interviews with employees). This list may not represent all materials stored or used on the property over the period of operation.
2. H22-001: Tank removed in 1995; release of diesel fuel; remediation of soil completed in 1997
3. J23-001: Tank removed in 1995; site characterization complete in 1997; PADEP requested additional ground-water monitoring
4. I22-001: Tank removed in 1995; site characterization complete in 1997; PADEP requested additional ground-water monitoring
5. M33-001: Tank removed in 1995; site characterization complete in 1997; PADEP requested additional sampling

 1998
 1/28/98
 10:00 AM

**TABLE 6-2 NOTICE OF CERCLA HAZARDOUS SUBSTANCES
FOR THE EAST END NAVAL BASE**

Substance Stored	CAS Number	Regulatory Synonym	RCRA Hazardous Waste Number	Reportable Quantity- lbs (kg)	Quantity Stored/ Released	Date(s) Stored/ Released
Stored enamel					unknown	unknown
Released lead (SWMU M-20)	7439921	—	D008	10 (4.54)	unknown	removal completed in 1996
Released spent blasting grit (some contains lead and cadmium) (IR Program Sites 1 & 2)	7439921 7440439	— —	D008 D006	10 (4.54)	unknown	removal completed in 1997

"The information contained in this notice is required under the authority of regulations promulgated under section 120(h) of the Comprehensive Environmental Response, Liability, and Compensation Act (CERCLA or "Superfund") 42 U.S.C. section 9620(h)."

NOTE: The hazardous substances, quantities, and dates listed in this notice are based on the available information and documentation (end-of-year hazardous material inventory from 1994, and interviews with employees). This list may not represent all materials stored or used on the property over the period of operation.

**TABLE 6-1 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS STORED, RELEASED, OR DISPOSED
AT THE ZONE III PARCEL**

Building Number	Building/Area Description	Substance (Stored/Released/Disposed)	Quantity	Date(s) Stored/ Released/Disposed	CERCLA 120 (h)(1) Reportable?
11	Industrial Department Offices	PCB Waste (2)	unknown	unknown	assumed yes
26	Research Lab and Office Building	Hydraulic fluid Paint Epoxy	2x 55 gal. unknown unknown	unknown unknown unknown	assumed yes assumed yes assumed yes
55	Servmart (former gasoline storage building)	gasoline	unknown	unknown-1995	no
59	Naval Aircraft Factory	petroleum-based hydraulic fuel	unknown	unknown	no
60	Dry Kiln and Lumber Storage Facility	oily wastewater	unknown	unknown	assumed yes
75	Aircraft Office Building	polyurethane	1 gallon	unknown	assumed yes
76	Storehouse	enamel diesel fuel	5 gallons unknown	unknown unknown	assumed yes no
78	Vehicle Holding Shed	motor oil and vehicle cleaning supplies	unknown	unknown	no
79	Aircraft Power House	automobile cleaning supplies	unknown	unknown	no
82	Transformer House and Electric Distribution Building	PCB Waste (2)	unknown	approximately 25 years ago	assumed yes
96	Land Plane Hangar	automobile cleaning supplies waste oil (3)	unknown unknown	unknown unknown	no no
101	Pistol Range	Lead	unknown	unknown	assumed yes
103	USMC Heating Plant	enamel and stain sealer	5 gallons of each	unknown	assumed yes
122	Living Quarters B and C garage	automobile cleaning supplies and motor oil	unknown	unknown	no
320	Receiving Station for Laundry Services	laundry cleaning chemicals	unknown	unknown	no
499	Living Quarters garage	automobile cleaning supplies and	unknown	unknown	no

EA Engineering, Science, and Technology

Building Number	Building/Area Description	Substance (Stored/Released/Disposed)	Quantity	Date(s) Stored/ Released/Disposed	CERCLA 120 (h)(1) Reportable?
655	Temporary Barracks for Officers	cleaning supplies Oil (6)	unknown unknown	unknown unknown	no assumed yes
656	Temporary Barracks for Officers	cleaning supplies Oil (6)	unknown unknown	unknown unknown	no assumed yes
657	Temporary Barracks for Officers	cleaning supplies Oil (6)	unknown unknown	unknown unknown	no assumed yes
658	Temporary Barracks for Officers	cleaning supplies Oil (6)	unknown unknown	unknown unknown	no assumed yes
661	Recreation Building Annex	pool chemicals	unknown	unknown	assumed yes
686	Air Compressor Building	PCB Waste (2)	unknown	unknown	assumed yes
689	Decontamination Building	pesticides	unknown	unknown	assumed yes
778	Pump House	PCB Waste (2)	unknown	unknown	assumed yes
792	Living Quarters X, Y and Z garage	automobile cleaning supplies and motor oil	unknown	unknown	no
890	Outdoor Swimming Pool Changing Area	cleaning supplies and pool chemicals	unknown	unknown	assumed yes
911	Bus Shelter	Motor Oil	unknown	unknown	no
922, 923	Gate and Sentry House	Motor Oil	unknown	unknown	no
925	Auto Service Station	Petroleum	unknown	unknown	assumed yes
Qtrs A	VIP Quarters	cleaning supplies	unknown	unknown	no
Qtrs B	Officers' Living Quarters	cleaning supplies	unknown	unknown	no
Qtrs C	Officers' Living Quarters	cleaning supplies	unknown	unknown	no
Qtrs K	Officers' Living Quarters	cleaning supplies	unknown	unknown	no
Qtrs L	Officers' Living Quarters	cleaning supplies	unknown	unknown	no
Qtrs M	Officers' Living Quarters	cleaning supplies	unknown	unknown	no

1601
1/28/98

EA Engineering, Science, and Technology

Notes:

- (1)The hazardous substances, quantities, and dates listed in this notice are based on the available information and documentation (end-of-year hazardous material inventory from 1994 and interviews with employees). This list may not represent all materials stored or used on the property over the period of operation.
- (2)Release of PCB occurred, transformer area.
- (3)Waste oil stored and released from ASTs.
- (4)Former UST, release occurred.
- (5)Backfill at Building 599, adjacent to Building 600, impacted by PCBs and petroleum hydrocarbons.
- (6)Oil release from storage drums, SWMU M-22.

TABLE 6-2 NOTICE OF CERCLA HAZARDOUS SUBSTANCES FOR ZONE III

Substance Stored	CAS Number	Regulatory Synonym	RCRA Hazardous Waste Number	Reportable Quantity-lbs (kg)	Quantity Stored	Date(s) Stored
Oily Wastewater					unknown	unknown
Polyurethane					unknown	unknown
Enamel					unknown	unknown
Epoxy					unknown	unknown
Lead					unknown	unknown
Leaded Gasoline				10 (4.54)	unknown Note (2)	unknown
Stain Sealer					unknown	unknown
Paint					unknown	unknown
PCB Waste polychlorinated biphenyls	1336363	N/A	N/A	1.0(0.454)	unknown Note (3)	unknown
Pesticides					unknown	unknown
Pool Chemicals (assumed calcium hypochlorite)	7778543	--	D001	10 (4.54)	unknown	unknown

"The information contained in this notice is required under the authority of regulations promulgated under section 120(h) of the Comprehensive Environmental Response, Liability, and Compensation Act (CERCLA or "Superfund") 42 U.S.C. section 9620(h)."

NOTE:

(1)The hazardous substances, quantities, and dates listed in this notice are based on the available information and documentation (end-of-year hazardous material inventory from 1994, and interviews with employees). This list may not represent all materials stored or used on the property over the period of operation.

(2)Release of leaded gasoline occurred at Building 925.

(3)Release of PCB occurred at Buildings 11,82, 554, 600, 686, and 778.

**TABLE 6-1 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS STORED, RELEASED, OR DISPOSED
AT ZONE II**

Building Number	Building/Area Description	Substance (Stored/Released/Disposed)	Quantity	Date(s) Stored/ Released/Disposed	CERCLA 120 (h)(1) Reportable?
120	Boat and General Storehouse	one, 1000-gallon No. 2 fuel oil AST (2) stored grease	unknown quantity	unknown	no
603	Reserve Basin Storehouse No. 2	stored radioluminescent material	unknown quantity of 55- gallon drums	unknown-1995	no
645/694	Pumphouse/Supply Department Storehouse	one, 500-gallon leaded gasoline UST (3)	unknown	unknown	no
694	Supply Department Storehouse	one, 22000-gallon No. 2 fuel oil AST	unknown	unknown	no
763	Radio, Radar, and Shipfitting Material Storehouse	five, 1000-gallon heating oil ASTs stored adhesives stored paint primer stored fire retardant stored kerosene stored PCB waste	unknown quantity of adhesive, primer, and kerosene Fire retardant (1) 55-gallon drum PCB waste (2) 55-gallon drums	unknown-1995 circa 1993-1995	assumed yes
772	Chemical Processor Center	PCB-contaminated transformer release; PCB Work Area Tank-car wash down area and sludge tank; elevated levels of PCB detected; removed	unknown	1990	yes

- Note: The hazardous substances, quantities, and dates listed in this notice are based on the available information and documentation (end-of-year hazardous material inventory from 1994 and interviews with employees). This list may not represent all materials stored or used on the property over the period of operation.
- AST release occurred, PNB-33
- UST release occurred, SWMU M-38

TABLE 6-2 NOTICE OF CERCLA HAZARDOUS SUBSTANCES FOR ZONE II

Substance Stored	CAS Number	Regulatory Synonym	RCRA Hazardous Waste Number	Reportable Quantity-lbs (kg)	Quantity Stored	Date(s) Stored
adhesives					unknown	unknown-1995
paint primer					unknown	unknown-1995
PCB waste (polychlorinated biphenyls)	1336363	N/A	N/A	1 (0.454)	55-gal drums (2)	circa 1993-1995
PCB releases (transformers, tank car wash area, and sludge tank)	1336363	N/A	N/A	1 (0.454)	N/A	N/A

"The information contained in this notice is required under the authority of regulations promulgated under section 120(h) of the Comprehensive Environmental Response, Liability, and Compensation Act (CERCLA or "Superfund") 42 U.S.C. section 9620(h)."

NOTE: The hazardous substances, quantities, and dates listed in this notice are based on the available information and documentation (end-of-year hazardous material inventory from 1994, and interviews with employees). This list may not represent all materials stored or used on the property over the period of operation.

Table 3-1. Summary of IR Program Sites, RCRA SWMUs and AOCs, and EBS AOCs

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
ZONE I									
1	I	C-16	RCRA SWMU	Former Incinerator Staging Area	woodworking wastes; paint; solvents	c. 1940-1971	GPM	CERCLA/NCP	NFA in RCRA WP
2	I	C-17	RCRA SWMU	Fire Fighting School (A)	spent oxygen breathing apparatus canisters	c. 1990-1995		RCRA	NFA in RCRA WP
3	I	C-18	RCRA SWMU	Fire Fighting School (B)	spent oxygen breathing apparatus canisters; fire training wastes	unknown-1995		RCRA	NFA in RCRA WP
4	I	C-19	RCRA SWMU	Fire Fighting School (C)	waste paint	unknown-1995		RCRA	NFA in RCRA WP
5	I	C-59	RCRA SWMU	Bldg. 897	waste oil; hydraulic fluid	c. 1983-present		RCRA	NFA in RCRA WP
6	I	C-60	RCRA SWMU STUDY	Bldg. 896/897 Staging Area	waste oils; hydraulic fluid; paint wastes; oily rags	1984-1995	SWP	RCRA	RCRA Stabilization - Risk Evaluation for Closure of TSD
7	I	C-63	RCRA SWMU	Bldg. 912	lab packs	1984-present		RCRA	NFA in RCRA WP
8	I	C-64	RCRA SWMU	Bldg. 995	flammable wastes	1984-present		RCRA	NFA in RCRA WP
9	I	C-65	RCRA SWMU	Bldg. 992	flammable wastes	1984-present		RCRA	NFA in RCRA WP
10	I	C-66	RCRA SWMU	DRMO Waste Battery Staging Area	waste batteries	1990-present		RCRA	NFA in RCRA WP
11	I	C-71	RCRA SWMU STUDY	Lumber Yard	lube oils; Freon; Oakite 220 wood preservative; compound rubber latex	1986-1994	SWP	RCRA	RCRA Stabilization - Risk Evaluation
12	I	L-1 (IR Program Site 4)	RCRA SWMU/IR	Girard Point Landfill Area	waste blasting grit; incinerator ash; metallics; assorted waste non-burnables	c. 1940s-1970s	RI/FS GPM	CERCLA/NCP	

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
22	I	O-3	RCRA SWMU	Firefighting School Oil/Water Separator	oily wastewater from fire training operations	unknown-1995	OA	CERCLA/NCP	PADEP Tank Program
23	I	O-11	RCRA SWMU STUDY	DRMO Oil/Water Separator	waste oil; bilge water; waste oil from transformers	1981-present	SWP	RCRA	RCRA Stabilization - Risk Evaluation
24	I	R-1	RCRA SWMU	Bldg. 896	paint-related wastes; solvents; detergents; hydraulic fluid; oil waste	c. 1984-1996	OP	RCRA	RCRA Permitted Unit
25	I	R-2	RCRA SWMU	Bldg. 647	PCB-related waste, including transformers	c. 1981-1996	OP	RCRA	RCRA Permitted Unit
26	I	R-3	RCRA SWMU	Bldg. 1054	alkalies; hospital waste; dioxin; oxidizers; acids; flammable wastes	c. 1984-1996	OP	RCRA	RCRA Permitted Unit
27	I	WP-1	RCRA SWMU STUDY	Excavated UST Contaminated Soil Waste Pile	petroleum hydrocarbons	c. 1990-1996	GPM	CERCLA/NCP	
28	I	WP-2	RCRA SWMU STUDY	Girard Point Blasting Grit Waste Piles	waste blasting grit	c. 1990-1994	GPM	CERCLA/NCP	
29	I	WP-4	RCRA SWMU/IR STUDY	Temporary IR Program Site 3 Waste Pile	PCB- and oil-contaminated soil	c. 1985-1992	GPM	CERCLA/NCP/TSCA	
30	I	AOC-G	RCRA AOC	Firefighting School UST Removal Area #1	gasoline, #2 diesel fuel	1953-1989	OA	CERCLA/NCP	PADEP Tank Program; ground-water monitoring
31	I	AOC-H	RCRA AOC	Firefighting School UST Removal Area #2	gasoline	1944-1990	OA	CERCLA/NCP	PADEP Tank Program NFA
32	I	PNB-30	EBS; Phase I AOC	Brig parade grounds	metals	unknown	SV	CERFA	EBS Phase II - Risk Evaluation

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
ZONE II									
33	II	M-38	RCRA SWMU	Bldg. 694 UST Removal Site	waste leaded gasoline	1966-1990	OA	RCRA	PADEP Tank Program NFA
34	II	PNB-32	EBS; Phase I AOC	Waste collection area	unknown	unknown		CERFA	NFA
35	II	PNB-33	EBS; Phase I AOC	Tank piping Building 120	#2 heating oil	unknown	OA	CERFA	Remedial Action Completed; NFA
ZONE III									
36	III	C-25	RCRA SWMU	Bldg. 601	waste paints; epoxy; empty paint and spray cans	unknown-1989		RCRA	NFA in RCRA WP
37	III	C-28	RCRA SWMU	Bldg. 26	waste paint sludges; empty paint cans	unknown-present		RCRA	NFA in RCRA WP
38	III	C-40	RCRA SWMU	Bldg. 96	waste oil	unknown-1995		RCRA	NFA in RCRA WP
39	III	C-41	RCRA SWMU	Bldg. 539 (A)	undrained used batteries	unknown-1995		RCRA	NFA in RCRA WP
40	III	C-42	RCRA SWMU	Bldg. 539 (B)	waste oil and waste antifreeze	unknown-1995		RCRA	NFA in RCRA WP
41	III	C-43	RCRA SWMU	Bldg. 539 (C)	used oil and fuel filters	unknown-1995		RCRA	NFA in RCRA WP
42	III	C-72	RCRA SWMU	Photo lab	aluminum chloride; acetic acid	1984-1996		RCRA	NFA in RCRA WP
43	III	C-78	RCRA SWMU	Pier 1	oils; paints; solvents; sodium nitrate; citric acid, fire-retardant chemical; oily wastewater	c. 1900s-1996	ICP	RCRA	NFA in RCRA WP
44	III	M-11	RCRA SWMU	Bldg. 925 UST Removal Site	waste oil	1963-1990	OA	RCRA	PADEP Tank Program; ground-water monitoring
45	III	M-12 (IR Program Site 6)	RCRA SWMU/IR	Substation 82 PCB Transformer Oil Spill Area	PCB-contaminated transformer oil	c. 1968-1995	RA	CERCLA/ NCP TSCA	ROD signed; Remedial Actions completed; NFA

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
46	III	M-21 (IR Program Site 15)	RCRA SWMU/IR	Vacant Lot, Former Bldg. 599, PCB Site	(formerly) spilled PCB and TPH	unknown-1995	RA	CERCLA/NCP TSCA	PCB Remedial Actions completed; Amended ROD signed; NFA
47	III	M-22	RCRA SWMU STUDY	Former WAVE Barracks Site	lead; hydrocarbon	unknown-1990	SWP	RCRA	DD signed; subsurface soil restriction
48	III	M-29	RCRA SWMU	Silver Recovery Units	silver and other photographic negative development wastewater	unknown-1996		RCRA	NFA in RCRA WP
49	III	M-33	RCRA SWMU	Bldg. 59 Assembly Building Paint Area	waste radioluminescent materials from painting operations	c. 1930s-1967		RCRA	NFA in RCRA WP
50	III	M-36	RCRA SWMU	Bldg. 96 Former Waste Oil Storage Tank Area	waste oil	unknown-1991	ICP	RCRA	Tank Removed; NFA
51	III	O-10	RCRA SWMU	Bldg. 601 Testing Area Oil/Water Separator	oily wastewater	c. 1987-unknown		RCRA	NFA in RCRA WP
52	III	T-4	RCRA SWMU	Bldg. 96 Waste Oil Tank	waste oil	unknown	ICP	RCRA	Tank and stained gravel removed; NFA
53	III	W-1	RCRA SWMU	Bldg. 535 Washrack	oily washwater containing detergents and petroleum hydrocarbons	unknown		RCRA	NFA in RCRA WP
54	III	W-2	RCRA SWMU	Bldg. 539 Washrack	oily washwater containing detergents and petroleum hydrocarbons	unknown		RCRA	NFA in RCRA WP
55	III	W-3	RCRA SWMU	Bldg. 96 Wash Area	oily washwater containing detergents and petroleum hydrocarbons	unknown		RCRA	NFA in RCRA WP
56	III	AOC-I	RCRA AOC	Bldg. 11 PCB Spill	leaking PCB transformer; PCB dielectric fluid; contaminated soil	1982-1996	OA	RCRA TSCA	Remediation completed; NFA
57	III	AOC-J	RCRA AOC	Bldg. 544 PCB Spill Site	PCB transformer oil	1990-unknown	OA	RCRA TSCA	Remediation completed; NFA

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
58	III	AOC-L	RCRA AOC	Bldg. 96 Spare Waste Tank	unknown	unknown-1995	ICP	RCRA	NFA
59	III	PNB-1	EBS; Phase I AOC	Landfill	unknown	unknown	SV	CERFA	DD signed; partial subsurface soil restriction
60	III	PNB-2	EBS; Phase I AOC	Incinerator	incinerator ash	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA
61	III	PNB-3	EBS; Phase I AOC	Gasoline storage tanks	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
62	III	PNB-28	EBS; Phase I AOC	Pit-Building 59	petroleum product	unknown	SV	CERFA	NFA
63	III	PNB-29	EBS; Phase I AOC	Building 101 Pistol Range	lead ammunition	unknown	OA	CERFA	NFA
ZONE IV									
64	IV	L-3 (IR Program Site 2)	RCRA SWMU/IR	Blasting Grit and Drum Disposal Area	waste blasting grit; base refuse; construction waste; incinerator ash	c. 1970-1980	RI	CERCLA/NCP	Removal Action completed; ROD signed; NFA
65	IV	L-4 (IR Program Site 1)	RCRA SWMU/IR	Mustin Field Rubble Disposal Area	river dredge spoil; spent blasting grit; fly and bottom ash; various scrap metals	c. 1900s-unknown	RI	CERCLA/NCP	Removal Action completed; ROD signed; NFA
66	IV	M-20	RCRA SWMU STUDY	Pistol Range	lead ammunition	c. 1980-1993	SWP	RCRA	Removal Action Completed; NFA
67	IV	PNB-8	EBS; Phase I AOC	Gasoline tanks	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
68	IV	PNB-9	EBS; Phase I AOC	Steam aircraft catapult	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
69	IV	PNB-10	EBS; Phase I AOC	Hydraulic aircraft catapult	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
70	IV	PNB-11	EBS; Phase I AOC	Small arms range	lead ammunition	unknown	SV	CERFA	EBS Phase II; NFA DD

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
71	IV	PNB-12	EBS; Phase I AOC	Steam aircraft catapult	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
72	IV	PNB-13	EBS; Phase I AOC	Hydraulic aircraft catapult	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
73	IV	PNB-14	EBS; Phase I AOC	Oil storage tank No. 871	petroleum product	unknown		CERFA	NFA
74	IV	PNB-15	EBS; Phase I AOC	Hydraulic aircraft catapult	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
75	IV	PNB-16	EBS; Phase I AOC	Steam aircraft catapult	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
76	IV	PNB-17	EBS; Phase I AOC	Concrete underground storage tank No. 856	aviation fuel	unknown	OA	CERFA	PADEP Tank Program; ground-water monitoring
77	IV	PNB-18	EBS; Phase I AOC	Concrete underground storage tank No. 870	aviation fuel	unknown	OA	CERFA	PADEP Tank Program; ground-water monitoring
78	IV	PNB-19	EBS; Phase I AOC	Gasoline tank farm	aviation fuel	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
79	IV	PNB-20	EBS; Phase I AOC	Landfill	unknown	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
80	IV	PNB-21	EBS; Phase I AOC	Pistol range	lead ammunition	unknown	SV	CERFA	NFA DD
81	IV	PNB-22	EBS; Phase I AOC	Concrete pads	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
82	IV	PNB-23	EBS; Phase I AOC	Drum storage area	unknown	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
83	IV	PNB-24	EBS; Phase I AOC	Ordnance magazine	petroleum product	unknown		CERFA	NFA
84	IV	PNB-25	EBS; Phase I AOC	Gasoline storage tank No. 857	gasoline	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
85	IV	PNB-26	EBS; Phase I AOC	Aircraft parking area	petroleum product	unknown		CERFA	NFA

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
86	IV	PNB-27	EBS; Phase I AOC	Storage area	unknown	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
ZONE V									
87	V	C-1	RCRA SWMU	Bldg. 543 (A)	compressed waste asbestos (two containers)	unknown-1995		RCRA	NFA in RCRA WP
88	V	C-2	RCRA SWMU	Bldg. 543 (B)	empty aerosol cans; petroleum spray cans; chlorinated solvents	unknown-1996		RCRA	NFA in RCRA WP
89	V	C-3	RCRA SWMU	Bldg. 543 (C)	waste paint; waste hydraulic fluid; empty aerosol cans; drums	unknown-1996		RCRA	NFA in RCRA WP
90	V	C-4	RCRA SWMU	Bldg. 990 (A)	lead-based paint sludge	unknown		RCRA	NFA in RCRA WP
91	V	C-5	RCRA SWMU	Bldg. 990 (B)	waste thinner; ethylene glycol; xylene; lead-based paint waste	unknown		RCRA	NFA in RCRA WP
92	V	C-6	RCRA SWMU	Bldg. 990 (C)	waste oil; degreasers	c. 1986-1989		RCRA	NFA in RCRA WP
93	V	C-8	RCRA SWMU	Bldg. 57 (A)	waste sludge	1989-1996		RCRA	NFA in RCRA WP
94	V	C-9	RCRA SWMU	Bldg. 57 (B)	waste cosmoline	unknown-1996		RCRA	NFA in RCRA WP
95	V	C-10	RCRA SWMU STUDY	Bldg. 57 (C)	waste and surplus paint	unknown-1996	SWP	RCRA	Risk Evaluation; NFA
96	V	C-11	RCRA SWMU	Bldg. 57 (D)	waste aerosol cans	unknown-1996		RCRA	NFA in RCRA WP
97	V	C-12	RCRA SWMU	Bldg. 25 (A)	trichloroethylene; scrap metal; trash	1975-unknown		RCRA	NFA in RCRA WP
98	V	C-13	RCRA SWMU	Bldg. 25 (B)	waste paint; paint cans	unknown		RCRA	NFA in RCRA WP
99	V	C-14	RCRA SWMU	Bldg. 3	waste aerosol and paint cans	unknown-1996		RCRA	NFA in RCRA WP

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
100	V	C-15	RCRA SWMU	Bldg. 10	waste aerosol cans; formica cement	unknown-1996		RCRA	NFA in RCRA WP
101	V	C-34	RCRA SWMU	Wharf 4-B	spent blasting grit	unknown-1995		RCRA	NFA in RCRA WP
102	V	C-46	RCRA SWMU	Bldg. 635	product material, double barrel; waste oil	c. 1985-1996	ICP	RCRA	Surficial Cleaning Completed; NFA
103	V	C-47	RCRA SWMU	Bldg. 22 (A)	Navee 42 (cleaner); waste oil	c. 1972-1976		RCRA	NFA in RCRA WP
104	V	C-48	RCRA SWMU	Bldg. 22 (B)	waste oil	c. 1970-1976		RCRA	NFA in RCRA WP
105	V	C-49	RCRA SWMU	Bldg. 1053	Freon 113; mineral spirits	c. 1986-present	OP	RCRA	
106	V	C-50	RCRA SWMU	Bldg. 18	waste trichloromethane	unknown-1996		RCRA	Deleted as SWMU in Final WP
107	V	C-51	RCRA SWMU	Bldg. 18	waste from parts washing	unknown-1996		RCRA	Deleted as SWMU in Final WP
108	V	C-52	RCRA SWMU	Bldg. 713 (A)	aerosol and aluminum cans	1988-1996		RCRA	NFA in RCRA WP
109	V	C-53	RCRA SWMU	Bldg. 713 (B)	trichloromethane	1987-1996		RCRA	NFA in RCRA WP
110	V	C-58	RCRA SWMU	Bldg. 541	waste oil; oily rags; solvents	1985-1996		RCRA	NFA
111	V	C-61	RCRA SWMU STUDY	Bldg. 1028	paint cans	unknown-1996	SWP	RCRA	Risk Evaluation; NFA
112	V	C-67	RCRA SWMU	Bldg. 880	waste paint thinner	c. 1988-1996		RCRA	NFA
113	V	C-69	RCRA SWMU	Bldg. 1035	aerosol cans	1980-1996		RCRA	NFA in RCRA WP

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
114	V	C-73	RCRA SWMU	Dry Dock #1	petroleum-based oil; synthetic hydraulic fluid; Freon 113; oil-contaminated debris; fire-retardant chemical; sodium nitrate; oily wastewater; paints; solvents; citric acid	c. 1900s-1996	ICP	RCRA	Surficial Cleaning Completed; NFA
115	V	C-74	RCRA SWMU	Dry Dock #2	paints; solvents; petroleum-based products; scrap metal; wood; plastic; trash; industrial scrap waste	c. 1900s-present	ICP	RCRA	Surficial Cleaning Completed; NFA
116	V	C-75	RCRA SWMU	Dry Dock #3	wastes from ship maintenance operations	c. 1900s-present		RCRA	NFA in RCRA WP
117	V	C-76	RCRA SWMU	Dry Dock #4	paints; solvents; petroleum-based products; scrap metal, wood, and plastic; industrial wastes	1940s-1996	ICP	RCRA	Surficial Cleaning Completed; NFA
118	V	C-77	RCRA SWMU	Dry Dock #5	wastes from ship maintenance operations	1940s-1996	ICP	RCRA	Surficial Cleaning Completed; NFA
119	V	C-79	RCRA SWMU	Pier 2	oils; paints; solvents; sodium nitrate; citric acid, fire-retardant chemical; oily wastewater	c. 1900s-1996	ICP	RCRA	Surficial Cleaning Completed; NFA
120	V	C-81	RCRA SWMU	Pier 5	oils; paints; solvents; sodium nitrate; citric acid, fire-retardant chemical; oily wastewater	c. 1900s-1996	ICP	RCRA	Surficial Cleaning Completed; NFA
121	V	C-82	RCRA SWMU	Pier 6	oils; paints; solvents; sodium nitrate; citric acid, fire-retardant chemical; oily wastewater	c. 1900s-1995	ICP	RCRA	Surficial Cleaning Completed; NFA

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
122	V	C-83	RCRA SWMU	Pier 6A	oils; paints; solvents; sodium nitrate; citric acid, fire-retardant chemical; oily wastewater	c. 1900s-1996		RCRA	NFA in RCRA WP
123	V	C-85	RCRA SWMU	Bldg. 16	waste from chrome plating baths	unknown-1996		RCRA	NFA in RCRA WP
124	V	D-1	RCRA SWMU	Scrap Metal Dumpsters	scrap metal	unknown-1998		RCRA	NFA in RCRA WP
125	V	D-2	RCRA SWMU	Flammable Trash Dumpsters	burnable trash (scrap wood, sawdust, tires)	unknown-1998		RCRA	NFA in RCRA WP
126	V	L-5 (IR Program Site 10)	RCRA SWMU/IR	Dry Docks 4 and 5 Disposal Area	garbage; spent blasting grit	c. 1920s-1940s		CERCLA/NCP	ROD signed; NFA
127	V	M-6 (IR Site 12)	RCRA SWMU/IR	Navy Fuel Farm	oil-contaminated soil	between 1966 and 1986-1996	RA	CERCLA/NCP	PADEP Tank Program; site evaluation underway
128	V	M-17	RCRA SWMU	Bldg. 1053 Recycling Facility	used Freon 113; mineral spirits	1986-present	OP	RCRA	
129	V	M-18	RCRA SWMU STUDY	Underground Fuel Line	fuel oil	1946-1988	OA	RCRA	RCRA Stabilization - Risk Evaluation; continued evaluation during re-development
130	V	M-19	RCRA SWMU	Dry Dock Sumps	wastewater with paint chips, fiberglass, wood chips, and rubber	c. 1900s-1996	OA	RCRA	NPDES
131	V	M-23	RCRA SWMU STUDY	Bldg. 646 Shredder	paint and scrap metal waste	c. 1990-1994	SWP	RCRA	RCRA Stabilization - Risk Evaluation; NFA

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
132	V	M-27	RCRA SWMU	Bldg. 880 Paint Room	yellow chrome-based paint waste	mid-1980s-1988		RCRA	NFA
133	V	M-28	RCRA SWMU STUDY	Bldg. 880 Outdoor Paint Area	chrome-based paint	c. 1988-1995	SWP	RCRA	RCRA Stabilization - Risk Evaluation; NFA
134	V	M-32	RCRA SWMU STUDY	Utility Trenches Fuel Oil Contamination Area	fuel oil	1946-1988	OA	RCRA	RCRA Stabilization - Risk Evaluation; continued evaluation during re-development
135	V	M-37 (IR Site 11)	RCRA SWMU/IR	Kau Park Storage Area	equipment, materials, and transformers possibly containing PCB	unknown-late 1981/early 1982		CERCLA/NCP TSCA	ROD signed; NFA
136	V	O-1	RCRA SWMU	Navy Fuel Farm Oil/Water Separator #1	stormwater; #6 fuel oil	unknown		RCRA	NFA in RCRA WP
137	V	O-2	RCRA SWMU	Navy Fuel Farm Oil/Water Separator #2	spilled and leaked oil	unknown		RCRA	NFA in RCRA WP
138	V	T-6	RCRA SWMU	Bldg. 17 Sodium Hydroxide Tank	waste "Penasolv 209" or sodium hydroxide	c. 1986-1996		RCRA	NFA in RCRA WP
139	V	W-5	RCRA SWMU	Bldg. 713 Washrack	waste trichloroethane	c. 1987-1996		RCRA	NFA in RCRA WP
140	V	WP-3	RCRA SWMU STUDY	Building 1028 Outdoor Blasting Area	waste blasting grit	c. 1990-1996	SWP	RCRA	RCRA Stabilization - Risk Evaluation
141	V	X-X	RCRA SWMU	Kau Park Drum Staging Area		unknown		RCRA	NFA
142	V	AOC-B	RCRA AOC	Bldg. 57 Plastisol Room Spill Area	plastisol; methylene chloride	unknown		RCRA	NFA
143	V	AOC-C	RCRA AOC	Bldg. 57 PCB Spill Area	mineral and PCB oil	c. 1985-1996	OA	RCRA TSCA	Remediated under TSCA program; NFA
144	V	AOC-D	RCRA AOC	Leaking PCB Rectifier Temporary Storage Area	leaking PCB rectifier	c. 1989-1996		RCRA TSCA	NFA

(Rec'd)
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Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
145	V	AOC-E	RCRA AOC	Bldg. 94/541 PCB Spill Area	PCB spill; contaminated soil, asphalt, and street paving material; drums	unknown-1990	OA	RCRA TSCA	NFA
146	V	AOC-F	RCRA AOC	Bldg. 41 Electroplating Shop Spill Area	chromium, zinc, cadmium, nickel, silver, nitric acid, hydrochloric acid	unknown-1994	ICP	RCRA	Cleanup underway
147	V	PNSY-2	EBS; Phase I AOC	Sanitary sewer pipe Building 121	mercury	unknown	OA	CERFA	Evaluation underway
148	V	PNSY-3	EBS; Phase I AOC	Waste accumulation area	paint, other	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
149	V	PNSY-4	EBS; Phase I AOC	PCB spills, Dry Dock 2	PCB	unknown	SV	CERFA TSCA	EBS Phase II; NFA DD
150	V	PNSY-5	EBS; Phase I AOC	Building 713 battery shop	unknown	unknown	OA	CERFA	NFA
151	V	PNSY-6	EBS; Phase I AOC	Building 22 maintenance building	PCB	unknown	OA	CERFA TSCA	NFA
152	V	PNSY-7	EBS; Phase I AOC	Building 18 machine shop	fuel oil	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
153	V	PNSY-8	EBS; Phase I AOC	Buildings 16 and 18 machinery sumps	petroleum product	unknown	OA	CERFA	Evaluation Underway
154	V	PNSY-9	EBS; Phase I AOC	Pier "F" and marine railway	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation
155	V	PNSY-10	EBS; Phase I AOC	Wharves	petroleum product	unknown	OA	CERFA	Surficial cleaning completed; NFA
156	V	PNSY-11	EBS; Phase I AOC	Building 880	petroleum product	unknown	OA	CERFA	Included in RCRA Stabilization - Risk Evaluation; NFA
157	V	PNSY-12	EBS; Phase I AOC	Building 990	petroleum product	unknown	OA	CERFA	NFA
158	V	PNSY-13	EBS; Phase I AOC	Building 620	petroleum product	unknown	OA	CERFA	TSCA Program; NFA

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
159	V	PNSY-14	EBS; Phase I AOC	Ramps, Buildings 94 and 95	petroleum product	unknown	OA	CERFA	Debris removal completed; NFA
160	V	PNSY-15	EBS; Phase I AOC	Parking lot	unknown	unknown	SV	CERFA	EBS Phase II - Risk Evaluation; NFA DD
161	V	PNSY-17	EBS; Phase I AOC	Building 541, C-Bay	petroleum product	unknown	OA	CERFA	NFA
162	V	PNSY-18	EBS; Phase I AOC	Building 793	petroleum product	unknown	OA	CERFA TSCA	Evaluation underway
163	V	PNSY-19	EBS; Phase I AOC	Dry Dock 3 accumulation areas	unknown	unknown	OA	CERFA	NFA
164	V	PNSY-20	EBS; Phase I AOC	Building 693	petroleum product	unknown	OA	CERFA	NFA
165	V	PNSY-21	EBS; Phase I AOC	Building 57	petroleum product	unknown	SV	CERFA	EBS Phase II; NFA
ZONE VII - RETAINED									
166	VII	C-7	RCRA SWMU STUDY	Bldg. 754	oil products; solvents; waste oil	unknown-present	SWP	RCRA	RCRA Stabilization - Risk Evaluation; NFA
167	VII	C-20	RCRA SWMU	Bldg. 619 (A)	solid wastes from laboratory activities	unknown-present		RCRA	NFA in RCRA WP
168	VII	C-21	RCRA SWMU	Bldg. 619 (B)	waste lube oil	unknown-1996	NLE	RCRA	NFA in RCRA WP
169	VII	C-22	RCRA SWMU STUDY	Bldg. 524	waste lube oil; paint; rags; spray cans; lead acid batteries	1986-present	SWP	RCRA	RCRA Stabilization - Risk Evaluation; NFA
170	VII	C-23	RCRA SWMU	Bldg. 633 (A)	waste lube oil	unknown-present		RCRA	NFA in RCRA WP
171	VII	C-24	RCRA SWMU	Bldg. 633 (B)	waste lube oil	unknown-1996	NLE	RCRA	NFA in RCRA WP
172	VII	C-26	RCRA SWMU	Bldg. 77H (A)	waste lube oil; waste cleaner; waste fuel oil	unknown-1996	NLE	RCRA	NFA in RCRA WP

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
173	VII	C-27	RCRA SWMU	Bldg. 77H (B)	waste lube oil; other waste oils; waste alcohol; waste acetone; used adsorbents; oily rags	unknown-present		RCRA	NFA in RCRA WP
174	VII	C-29	RCRA SWMU	Bldg. 753 (A)	contaminated diesel fuel; waste gear oil; waste hydraulic oil; waste lube oil; waste antifreeze; cleaning solvent	1989-1996	NLE	RCRA	NFA in RCRA WP
175	VII	C-30	RCRA SWMU	Bldg. 753 (B)	waste battery acid	unknown-present		RCRA	NFA in RCRA WP
176	VII	C-31	RCRA SWMU	Bldg. 753 (C)	used, primarily undrained Ni-Cd batteries	unknown-present		RCRA	NFA in RCRA WP
177	VII	C-32	RCRA SWMU STUDY	Bldg. 753 (D)	waste oil; unknown hazardous wastes	1990-present	SWP	RCRA	Risk Evaluation; NFA
178	VII	C-33	RCRA SWMU	Bldg. 585	waste paints and thinners	unknown-present	NLE	RCRA	Non-emergency Corrective Action completed; NFA
179	VII	C-35	RCRA SWMU	Wharf F	ignitable and nonhazardous (epoxy, latex) paint wastes	c. 1975-1985		RCRA	NFA in RCRA WP
180	VII	C-36	RCRA SWMU	Bldg. 87 (A)	waste oil and waste antifreeze	1990-present	NLE	RCRA	NFA in RCRA WP
181	VII	C-37	RCRA SWMU	Bldg. 87 (B)	waste motor oil; waste transmission fluid; waste hydraulic oil	1990-present	NLE	RCRA	NFA in RCRA WP
182	VII	C-38	RCRA SWMU	Bldg. 87 (C)	waste oil	1990-present	NLE	RCRA	NFA in RCRA WP
183	VII	C-39	RCRA SWMU	Bldg. 87 (D)	Undrained lead-acid batteries	1990-present	NLE	RCRA	NFA in RCRA WP

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
184	VII	C-44	RCRA SWMU	Bldg. 1000	paint and aerosol cans; oily rags; grease; antifreeze; xylene	c. 1986-1995	NLE	RCRA	Non-emergency Corrective Action completed; NFA
185	VII	C-45	RCRA SWMU	Bldg. 546	paint waste; paint cans	FEB 1991-present	NLE	RCRA	NFA in RCRA WP
186	VII	C-54	RCRA SWMU	Bldg. 592 (A)	waste oil	c. 1988-present		RCRA	NFA in RCRA WP
187	VII	C-55	RCRA SWMU	Bldg. 592 (B)	Freon 113	1989-present	NLE	RCRA	NFA in RCRA WP
188	VII	C-56	RCRA SWMU	Bldg. 592 (C)	cleaning solvents; PD-680; hydraulic fluid	1986-present	NLE	RCRA	NFA in RCRA WP
189	VII	C-57	RCRA SWMU	Bldg. 68	waste oil	1986-present	NLE	RCRA	NFA in RCRA WP
190	V	C-62	RCRA SWMU STUDY	Bldg. 646	paint cans and drums	1990-1996	SWP	RCRA	Risk Evaluation
191	VII	C-68	RCRA SWMU	Bldg. 20	waste solvent	1989-present		RCRA	NFA in RCRA WP
192	VII	C-70	RCRA SWMU	Bldg. 1029	waste coolant; oil; trichloromethane	1986-present		RCRA	NFA in RCRA WP
193	VII	C-80	RCRA SWMU	Pier 4	oils; paints; solvents; sodium nitrate; citric acid, fire-retardant chemical; oily wastewater	c. 1900s-1995		RCRA	Non-emergency Corrective Action completed; NFA
194	VII	C-84	RCRA SWMU	Pier 7	oils; paints; solvents; sodium nitrate; citric acid, fire-retardant chemical; oily wastewater	c. 1900s-1995	NLE	RCRA	NFA in RCRA WP
195	VII	M-2	RCRA SWMU	Bldg. 20 Foundry Wet Dumpster Storage Area	solid waste (waste sand, core butts, casting cement)	unknown	NLE	RCRA	NFA in RCRA WP
196	VII	M-5 (IR Program Site 8)	RCRA SWMU/IR	Reserve Basin Sediments Area	waste Bunker C fuel oil; #6 fuel oil; spent blasting grit	c. 1940s-1970s	OA	CERCLA/NCP	Evaluation underway under IR Program

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
197	VII	M-9 (IR Site 9)	RCRA SWMU/IR	Fuel Tank 866	soil contaminated with Bunker C fuel oil	unknown-present	OA	CERCLA/NCP	PADEP Tank Program, Site Characterization Report completed
198	VII	M-10	RCRA SWMU STUDY	Bldg. 753 Roundhouse Acid Dumping Area	sulfuric acid	c. 1985-unknown	SWP	RCRA	RCRA Stabilization - Risk Evaluation; NFA
199	VII	M-14	RCRA SWMU	Small Equipment Cleaning Area	solvent waste	unknown-present	NLE	RCRA	NFA in RCRA WP
200	VII	M-15	RCRA SWMU	Wharf F	ignitable and non-hazardous (epoxy, latex) paint waste	unknown-1985	ICP	RCRA	NFA
201	VII	M-35	RCRA SWMU STUDY	Bldg. 753 Roundhouse Product Storage Area	oil and solvent products; hazardous wastes	c. 1983-present	SWP	RCRA	RCRA Stabilization - Risk Evaluation; NFA
202	VII	M-39	RCRA SWMU	Bldg. 753 UST Removal Site	waste fuel	1946-1990	OA	RCRA	PADEP Tank Program; remediation complete; NFA
203	VII	M-41 (IR Program Site 7)	RCRA SWMU/IR	Bldg. 546 PCB Transformer Oil Spill Area	PCB transformer oil	unknown	OA	CERCLA/NCP TSCA	IR Program; remediation complete; NFA
204	VII	M-42 (IR Program Site 14)	RCRA SWMU/IR	Bldg. 592, Oil Spill Area	waste oil	before 1988-present	OA	CERCLA/NCP	Risk Evaluation Recommended
205	VII	O-4	RCRA SWMU	NAVSESSES Oil/Water Separator #1	spilled and leaked lube and diesel oil	c. 1950-present	OA	RCRA	Monitoring per City of Philadelphia
206	VII	O-5	RCRA SWMU	NAVSESSES Oil/Water Separator #2	spilled and leaked lube and diesel oil	c. 1950-present	OA	RCRA	Monitoring per City of Philadelphia
207	VII	O-6	RCRA SWMU	NAVSESSES Oil/Water Separator #3	spilled and leaked oil	c. 1950-present	OA	RCRA	Monitoring per City of Philadelphia
208	VII	O-7	RCRA SWMU	NAVSESSES Oil/Water Separator #4	spilled and leaked oil	c. 1950-present	OA	RCRA	Monitoring per City of Philadelphia

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
209	VII	O-8	RCRA SWMU	NAVSES Oil/Water Separator #5	wastewater containing #2 diesel fuel	c. 1950-present	OA	RCRA	Monitoring per City of Philadelphia
210	VII	O-9	RCRA SWMU	NAVSES Oil/Water Separator #6	spilled and leaked #2 diesel fuel	between 1981 and 1986-present	OA	RCRA	Monitoring per City of Philadelphia
211	VII	T-1	RCRA SWMU	Bldg. 619 Hydrocarbon Tank	hydrocarbon wastes, including solvents	unknown-present		RCRA	NFA in RCRA WP
212	VII	T-2	RCRA SWMU	Bldg. 619 Waste Oil Tank	waste oil	unknown-present		RCRA	NFA in RCRA WP
213	VII	T-3	RCRA SWMU	Bldg. 946 Spill Tank	waste oil from gas station spills; storm water run-off	1986-present		RCRA	NFA in RCRA WP
214	VII	T-5	RCRA SWMU	Bldg. 483/77H Waste Oil Tank	waste oil	1986-present	NLE	RCRA	NFA in RCRA WP
215	VII	T-7	RCRA SWMU	Bldg. 1000 Paint Stripping Tank	paint stripping rinsewater	c. 1975-present	NLE	RCRA	NFA in RCRA WP
216	VII	T-8	RCRA SWMU	Bldg. 1000 Cleaning Residue UST	trichloroethane; degreaser	1975-1993	NLE	RCRA	NFA
217	VII	W-4	RCRA SWMU	Bldg. 1000 Washrack	oil; grease; paint chips; degreaser	1985-present	NLE	RCRA	NFA in RCRA WP
218	VII	AOC-A	RCRA AOC	Bldg. 602 (Substation 529) PCB Transformer Spill Area	waste oil	unknown	OA	RCRA TSCA	TSCA Program
219	VII	AOC-K	RCRA SWMU STUDY	Tank Farm 950 and 951 Contamination Area	No. 2 diesel fuel	unknown-present	OA	RCRA	PADEP Tank Program Interim Remedial Action ongoing
220	VII	AOC-M	RCRA AOC	Bldg. 40 PCB Spill Site	PCB transformer oil	1990-present	OA	RCRA TSCA	TSCA; Remediated; NFA
221	VII	AOC-N	RCRA AOC	Bldg. 87 PCB Spill	PCB spill	c. 1981-unknown	OA	RCRA TSCA	TSCA; Remediated; NFA

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
222	VII	AOC-O	RCRA SWMU STUDY	Bldg. 753 Roundhouse Stained Area	unknown	c. 1989-present	SWP	RCRA	RCRA Stabilization - Risk Evaluation
223	VII	PNB-4	EBS; Phase I AOC	Underground fuel oil storage tank	petroleum product	unknown	NLE	CERFA	NFA
224	VII	PNB-5	EBS; Phase I AOC	Building 435 Radiographics and chemical storage	unknown	unknown	NLE	CERFA	NFA
225	VII	PNB-6	EBS; Phase I AOC	Building 483 aircraft truck fueling facility	petroleum product	unknown	NLE	CERFA	NFA
226	VII	PNB-7	EBS; Phase I AOC	Gasoline tank farm	petroleum product	unknown	SV	CERFA	EBS Phase II - Risk Evaluation
227	VII	PNB-31	EBS; Phase I AOC	Transformers Building 753	unknown	unknown	OA	CERFA	
228	VII	PNSY-1	EBS; Phase I AOC	Antenna storage area east of Building 121	petroleum	unknown	SV	CERFA	EBS Phase II - Risk Evaluation
229	VII	PNSY-16	EBS; Phase I AOC	Building 68	PCB	unknown	OA	CERFA TSCA	TSCA
230	VII	PNSY-22	EBS; Phase I AOC	Power plant laydown area	petroleum product	unknown	OA	CERFA	Included in RCRA Stabilization - Risk Evaluation
MULTIPLE ZONES									
231	ALL	D-3	RCRA SWMU	General Refuse Dumpsters	waste paper; municipal waste containing minor amounts of hazardous constituents	unknown-present		RCRA	NFA in RCRA WP
232	ALL	D-4	RCRA SWMU	Asbestos Dumpster	waste asbestos piping insulation	unknown-present		RCRA	NFA in RCRA WP
233	ALL	M-1	RCRA SWMU	Waste Bowsers	waste oil; wastewater from radiator flushes; waste antifreeze	c. 1970-present		RCRA	NFA in RCRA WP
234	ALL	M-3	RCRA SWMU	Flatbed Trucks	waste oil; solvents; paints; degreasers	unknown-present		RCRA	NFA in RCRA WP

Table 3-1 (Cont.)

	Zone	Alternate Name (a)	Site Class	Location/Description	Material	Date of Operation	Status (b)	Regulatory Mechanism	Comments (b)
235	ALL	M-13	RCRA SWMU	Paint Booths	paint waste; chemical additive named Booth Compound	c. 1983-present		RCRA	NFA in RCRA WP
236	ALL	M-16	RCRA SWMU	Drip Pans	waste oil; solvents; paints	unknown-present		RCRA	NFA in RCRA WP
237	ALL	M-30	RCRA SWMU	Sanitary Sewer System	domestic and industrial wastewater, including paint booth wastewater	1945-present	OA	RCRA	City of Philadelphia Sanitary Sewer Contract
238	ALL	M-31	RCRA SWMU	Storm Water Sewer System	stormwater run-off; wastewater from oil/water separators; wastewater from dry docks	1945-present	OA	RCRA	NPDES

(a) Notes pertaining to Alternate Name:

PNB - Philadelphia Naval Base

PSNY - Philadelphia Naval Shipyard

AOC - Area of Concern

C - Container Satellite Accumulation Area

D - Dumpster

L - Landfill

M - Miscellaneous Unit

O - Oil/Water Separator

R - RCRA-Regulated Unit

T - Tank

W - Washrack

WP - Waste Pile

(b) Notes pertaining to Status and Comments:

CERCLA/NCP - Consistent with CERCLA/NCP under the Navy IR Program

DD - Decision Document

GPM - Site is part of the Girard Point Management Area

ICP - Interim Corrective Procedure

NLE - No Longer Exists

OA - Other Action taken under alternate regulatory program

OP - Operational

RA - Remedial Action

RCRA WP - Identified for No Further Action in RCRA Sampling Visit Work Plan; closed out by EPA

RI/FS - Remedial Investigation/Feasibility Study

SV - Site was sampled as part of the EBS Phase II Work Plan Sampling Visit

SWP - Site was sampled as part of the RCRA Stabilization Work Plan

Table 3-2. Early Actions Status

Site	Zone	Program	Action	Purpose	Status
IR Program Sites 1 & 2	IV	IR Program	<ul style="list-style-type: none"> Drum removal Debris and blasting grit removal 	Source removal	<ul style="list-style-type: none"> Completed in 1990; risk assessment planned in 1997 Complete.
IR Program Site 3	I	IR Program	<ul style="list-style-type: none"> Removal of PCB-contaminated soil 	Source removal	<ul style="list-style-type: none"> Soil removal completed Spring 1985
IR Program Site 4	I	IR Program	<ul style="list-style-type: none"> Bank stabilization 	Erosion prevention	<ul style="list-style-type: none"> Ground-water monitoring underway. Complete; NFA.
IR Program Site 5	I	IR Program	<ul style="list-style-type: none"> Bank stabilization 	Erosion prevention	<ul style="list-style-type: none"> Risk assessment planned in 1997. Complete, NFA.
IR Program Site 6	III	IR Program	<ul style="list-style-type: none"> Removal of PCB-contaminated soil 	Source removal	<ul style="list-style-type: none"> Soil removed between March 1985 and June 1989
IR Program Site 7	VII	IR Program	<ul style="list-style-type: none"> Removal of PCB-contaminated soil 	Source removal	<ul style="list-style-type: none"> Soil removed between March 1985 and June 1989
IR Program Site 15	III	IR Program	<ul style="list-style-type: none"> Soil removal 	Source removal	<ul style="list-style-type: none"> Soil removed between March 1985 and June 1989
Girard Point Management Area	I	IR Program	<ul style="list-style-type: none"> Storm Sewer Clean-out Incinerator Stack Demolition & Decontamination 	Source removal	<ul style="list-style-type: none"> Underway Underway
M-20	IV	RCRA Corrective Action	<ul style="list-style-type: none"> Pistol Range Lead Removal 	Source removal	<ul style="list-style-type: none"> Complete
DRMO (M-24, M-25, M-34)	I	RCRA Corrective Action	<ul style="list-style-type: none"> Storm Sewer Clean-up 	Source removal	<ul style="list-style-type: none"> Underway
Site 12 - Fuel Farm	V	PA Tank Regulations	<ul style="list-style-type: none"> Removed 2 USTs Free-Product Removal 	Source removal	<ul style="list-style-type: none"> Removal completed in 1993 Underway
Site 13 - Fire Fighting Training Area	I	PA Tank Regulations	<ul style="list-style-type: none"> Removed 3 USTs 	Source removal	<ul style="list-style-type: none"> Completed in 1990; monitoring ongoing
AOC-K	VII	PA Tank Regulations	<ul style="list-style-type: none"> Soil removal and physical improvements Free-Product Recovery and Bioslurping 	Source removal	<ul style="list-style-type: none"> Removals and construction completed 1992 Underway

Table 3-2 (Cont.)

Site	Zone	Program	Action	Purpose	Status
Bldg. 694	II	PA Tank Regulations	• Removed 1 UST and impacted soil	Source removal	• Removal completed July 1990, NFA.
Bldg. 753	VII	PA Tank Regulations	• Removed 2 USTs and impacted soil	Source removal	• Removal completed June 1990, NFA.
Bldg. 925	III	PA Tank Regulations	• Removed 2 USTs and impacted soil	Source removal	• Removal completed July 1996. Ground-water monitoring underway.
SWMU C-22	VII	Compliance	• Physical improvements	Prevent potential contamination	• Construction completed 1992
SWMU M-18/M-32	V & VII	Compliance	• 2,000 gal of No. 6 fuel oil removed from fuel line; underground pipe removed; debris removed; trench washed, bricked, and sand-bagged	Source removal; prevent potential contamination	• Cleaning and removals completed 1991

Original
(Red)
1/1/2000